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2018-07749

## Feature Activity 5 Documentation

### Setting up the server

```
Command Prompt

C:\Users\Deanii>docker run --rm -d --name apache -p 80:80 httpd:2.4
Unable to find image 'httpd:2.4' locally
2.4: Pulling from library/httpd
69692152171a: Pull complete
7284b4a0cc7b: Pull complete
3678b2d55ccd: Pull complete
aeb67982a725: Pull complete
06954f8169fd: Pull complete
Digest: sha256:48bae0ac5d0d75168f1c1282c0eb21b43302cb1b5c5dc9fa3b4a758ccfb36fe9
Status: Downloaded newer image for httpd:2.4
3ef3480b07b4a5f2bc3215556aa5c4da8eb005be493fd9128ca1a4c19da13e82

C:\Users\Deanii>curl localhost
<html><body><h1>It works!</h1></body></html>

C:\Users\Deanii>cd C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes
C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker cp index.html apache:/usr/local/apache2/htdocs/
C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker stop apache
apache
C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 httpd:2.4
bf90b71d41056e0f831d617a20fdd79ba3525907161ce87514c33e0ea6c7ad91
C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works!</h1></body></html>

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>_
```

### Managing volumes

```
Command Prompt

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker volume ls
DRIVER      VOLUME NAME

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker volume create myvolume
myvolume

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker volume ls
DRIVER      VOLUME NAME
local       myvolume

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker volume rm myvolume
myvolume

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker volume ls
DRIVER      VOLUME NAME

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>_
```

## Mounting volumes on containers

```
Command Prompt

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker volume create httpd_htdocs
httpd_htdocs

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
51aee4300822b035107d8379fc9107c9ccbe1d1320c8583ac5b1de0f1b1057a

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker cp index.html apache:/usr/local/apache2/htdocs/

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker stop apache
apache

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
8b7f2248f78066f99dc11f1a738d0bf93238a89298deddcabce07b85adf32712

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker stop apache
apache

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker volume rm httpd_htdocs
httpd_htdocs

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>
```

## Mounting host directories on containers

```
Command Prompt

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80
-v C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes:/usr/local/apache2/htdocs/ httpd:2.4
60357ce5447c88ed15f3998f4a1646da285deea2063b7565f4ae871b3f8ed55

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>Yuh yuh</h1></body></html>

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker stop apache
apache

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>
```

```
index - Notepad

File Edit Format View Help

<html><body><h1>Yuh yuh</h1></body></html>

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